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PTO/SB/21 (05-03)

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/593,134	
	Filing Date	September 18, 2006	
	First Named Inventor	Michael A. Ellsworth	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission		Attorney Docket Number	PC32199A

ENCLOSURES (Check all that apply)		
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### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Timothy J. Gumbleton, 54,143
Signature	
Date	November 20, 2006

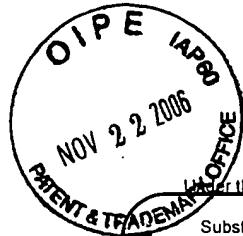
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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/593,134
Filing Date	September 18, 2006
First Named Inventor	Michael A. Ellsworth
Art Unit	
Examiner Name	

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## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO95/12682	05-11-1995	Elizabeth J. Haanes		
		WO99/15900	04-01-1999	Roy Huchzermeyer		
		WO99/55366	11-04-1999	Charles M. Rice		

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Application Number	10/593,134
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First Named Inventor	Michael A. Ellsworth
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		STEVEN R. BOLIN, "Control of Bovine Viral Diarrhea Infection By Use of Vaccination," <i>Vet. Clin. North Am.: Food Animal Prac.</i> , 11:615-625 (1995).	
		CHRISTIANNE J.M. BRUSCHKE, et al., "A subunit vaccine based on glycoprotein E2 of bovine virus diarrhea virus induces fetal protection in sheep against homologous challenge," <i>Vaccine</i> 15:1940-1945 (1997).	
		LEROY COGGINS, et al., "Attenuation of Virus Diarrhea Virus (Strain Oregon C24V) for Vaccine Purposes*", <i>Cornell Vet.</i> 51:539 (1961).	
		M. F. CORIA, et al., "Duration of Active and Colostrum-derived Passive Antibodies to Bovine Viral Diarrhea Virus in Calves," <i>Can. J. Con. Med.</i> 42:239 (1978).	
		ALBERT L. FERNELIUS, et al., "Evaluation of Beta-Propiolactone-Inactivated- and Chloroform-Treated-Virus Vaccines Against Bovine Viral Diarrhea-Mucosal Disease," <i>Am. J. Vet. Res.</i> 33:1421-1431 (1972).	
		M. D. FRAY, et al., "The effects of bovine viral diarrhoea virus on cattle production in relation to disease control," <i>Animal Reproduction Science</i> , 60-61 (2000), 615-627.	
		M. DANIEL GIVENS, et al., "Detection of bovine viral diarrhea virus in semen obtained after inoculation of seronegative postpubertal bulls," <i>AJVR</i> , Vol. 64, No. 4, 428-434, April 2003.	
		M. DANIEL GIVENS, et al., "Bovine viral diarrhea virus in embryo and semen production systems," <i>Vet Clin Food Anim</i> 20 (2004), 21-38.	
		D. M. HAINES, et al., "Monoclonal Antibody-Based Immunohistochemical Detection of Bovine Viral Diarrhea Virus in Formalin-Fixed, Paraffin-Embedded Tissues," <i>Vet. Pathol.</i> , 29:27-32 (1992). (Abstract)	
		GARY WILLIAM HORNER, et al., "Comparison of an antigen capture enzyme-linked assay with reverse transcription - polymerase chain reaction and cell culture immunoperoxidase tests for the diagnosis of ruminant pestivirus infections," <i>Vet Microbiology</i> 43 (1995), 75-84.	

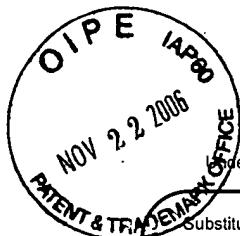
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Attorney Docket Number

PC32199A

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Application Number	10/593,134
Filing Date	September 18, 2006
First Named Inventor	Michael A. Ellsworth
Art Unit	
Examiner Name	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		P. D. KIRKLAND, et al., " Replication of bovine viral diarrhoea virus in the bovine reproductive tract and excretion of virus in semen during acute and chronic infections," Veterinary Record (1991);128, 587-590.	
		P. D. KIRKLAND, et al., "Insemination of cattle with semen from a bull transiently infected with pestivirus. Veterinary Record, (1997) 140:124-127.	
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		M. LOBMAN, et al., "Clinical evaluation of a temperature-sensitive bovine viral diarrhea vaccine strain," Am. J. Vet. Res. 45:2498 (1984).	
		M. LOBMAN, et al., "Safety of a temperature-sensitive vaccine strain of bovine viral diarrhea virus in pregnant cows," Am. J. Vet. Res. 47:557-561 (1986).	
		A. W. MCCLURKIN, et al., "Selected Isolates of Bovine Viral Diarrhea (BVD) Virus Propagated on Bovine Turbinete Cells: Virus Titer and Soluble Antigen Productions as Factors in Immunogenicity of Killed BVD Virus**", Arch. Virol. 58:119-125 (1978).	
		M. R. MCGOWAN, et al., Early reproductive loss due to bovine pestivirus infection. British Veterinary Journal (1995), 151:263-270.	
		A. MEYLING, et al., "Transmission of Bovine Virus Diarrhoea Virus (BVDV) by Artificial Insemination (AI) with Semen from a Persistently-infected bull. Veterinary Microbiology (1988) 17:97-105.	
		R. NISKAMEN, et al., "Insemination of Susceptible Heifers with Semen from a Non-Viraemic Bull with Persistent Bovine Virus Diarrhoea Virus Infection Localized in the Testes," Reprod Dom Anim 37, 171-175 (2002).	

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Docket Number PC32199

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/593,134
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